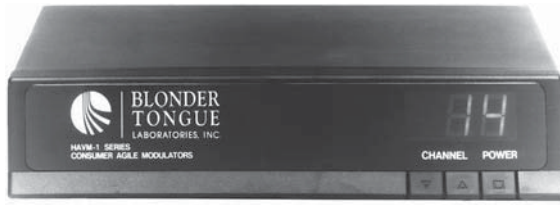


Professional Agile Modulators

HAVM Series

Headend



○ Features & Benefits

- +28 dBmV Output Level (Combined)
- Agile Channel Via Front Panel Controls and LED Display
- CATV or UHF Channel Map Selection Via Rear Panel Switch
- Non-Volatile Memory Retains Channel Information after Power Interruptions

The HAVM Series includes consumer quality, double side band agile modulators, designed for use in multi-room video distribution systems to provide additional video sources, such as security cameras, laser disks, etc. Four models are available, including 1 or 2 channels and 300 to 550 MHz or 470 to 806 MHz frequency coverage. The HAVM Series has a rear panel switch for selecting either CATV (Hyperband) or UHF (Broadcast) channels, depending on the desired application. These economically priced modulators provide very good picture quality for non-adjacent channel use. Agile channel selection makes setup fast and easy. Non-volatile memory ensures last channel recall even after a power outage. The HAVM Series products are housed in a standard cable converter style case with a rugged plastic front panel. LED display(s) and channel up/down buttons permit easy selection of the desired channel(s).

○ Specifications

RF

Frequency Range
 HAVM-1HA & HAVM-2HA - CATV: 300-550 MHz
 HAVM-1HA & HAVM-2HA - UHF: 470-550 MHz
 HAVM-1UA & HAVM-2UA - CATV: 550-800 MHz
 HAVM-1UA & HAVM-2UA - UHF: 470-806 MHz
 Output Level: +28 dBmV
 Visual Carrier Frequency Tolerance: ± 25 kHz
 Aural Carrier Frequency
 Offset from Visual Carrier: +4.5 MHz
 Spurious Outputs - Minimum: -50 dBc
 Channel Memory: Non-Volatile
 Output Impedance: 75 Ω
 Output Return Loss: 12 dB

Video

Input Level: 1.0 Vp-p
 Frequency Response fv-0.5 MHz to fv+4.2 MHz:
 ± 2 dB
 P-P Video to RMS Hum Ratio: 60 dB
 Video Signal-to-Noise Ratio, Weighted: 55 dB
 Input Impedance: 75 Ω

Audio

Input Level: 1.0 (b) Vp-p
 Frequency Range: 50 Hz to 15 kHz
 Frequency Response: ± 2.0 dB
 Input Impedance: 600 Ω , unbalanced

Sub-Carrier Audio

Frequency (MHz): 4.5 MHz
 Stability (kHz): ± 10 kHz

General

Power Requirements
 Voltage: 117, $\pm 10\%$ VAC
 Frequency: 60 Hz
 Power: 6 / 10 W
 Temperature Range: 0 to +50 $^{\circ}$ C

Mechanical

Dimensions (W x H x D):
 8.00 x 2.00 x 5.75 in.
 203 x 51 x 146 mm
 Weight: 2.25 lbs., 1.02 kg

Connectors

Video Input(s): RCA Female
 Audio Input(s): RCA Female
 RF Output: "F" Female

Controls

Power ON/OFF: Push Button
 Channel UP/DOWN: Push Button

Controls

Hyper/UHF Select: Slide Switch - Rear Panel

Indicators

Power On: LED
 Channel(s) HAVM-1HA & HAVM-1UA:
 1-3 Digit, 7
 Segment LED HAVM-2HA & HAVM-2UA:
 2-3 Digit, 7 Segment LED

○ Ordering Information

Model	Stock No.	Description
HAVM-1HA	5988HA	Professional Agile Modulator +30 dBmV, 300-550 MHz, 1 Channel
HAVM-1UA	5988UA	Professional Agile Modulator +30 dBmV, 470-806 MHz, 1 Channel
HAVM-2HA	5989HA	Professional Agile Modulator +30 dBmV, 300-550 MHz, 2 Channels
HAVM-2UA	5989UA	Professional Agile Modulator +30 dBmV, 470-806 MHz, 2 Channels